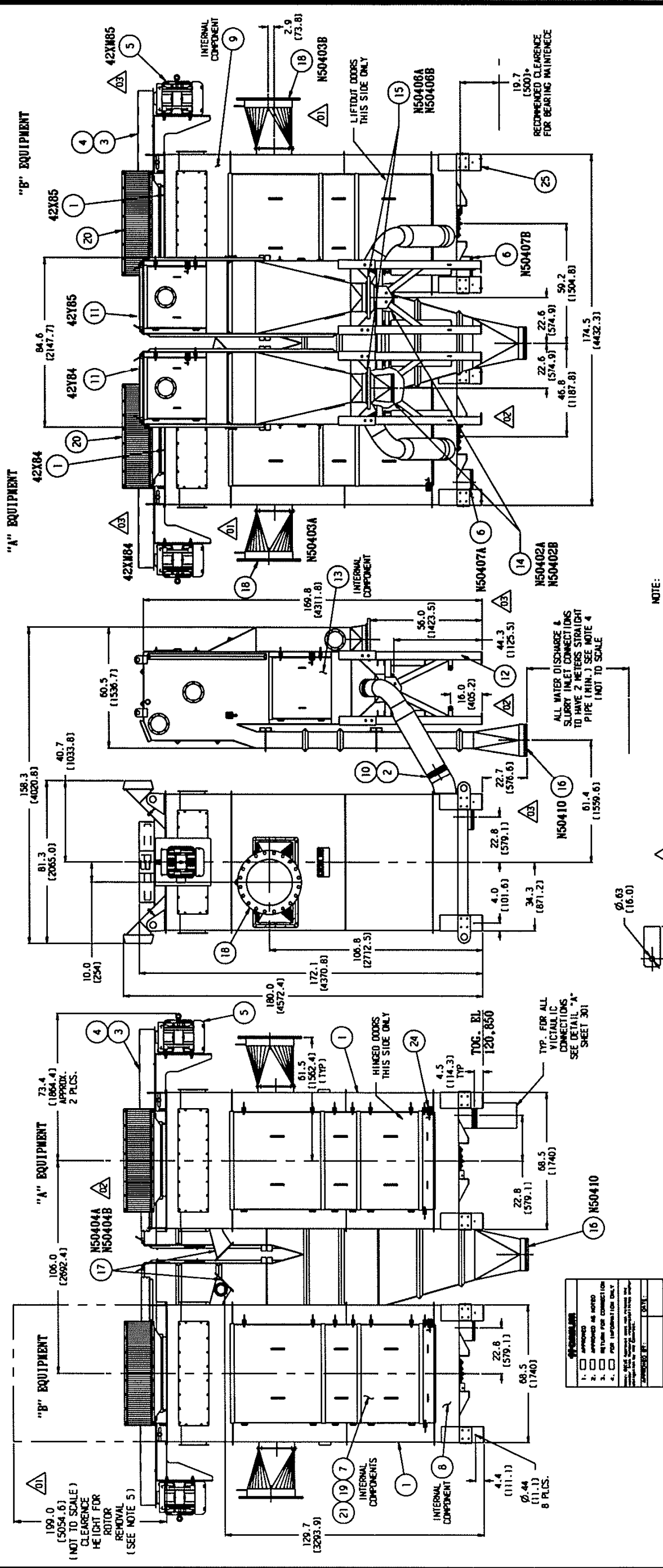


WEIGHTS (APPROXIMATE) LBS/KG				REVISIONS			
BASE D650 (EACH)	D650 (EACH)	D650 (EACH)	SPLIT AU/DU 3200 TOTAL (PLUGGED)	LEVEL	RECD	BY	DATE
W/SELECT OPTIONS	DRIVE KIT (50 HP)	TOTAL (EMPTY)	TOTAL (PLUGGED)	01	10/11/08	CHANGES MADE PER CUSTOMER REQUEST	REMARKS
7265/3295	1300/590	8565/3885	13815/6565	02	06/20/09	UPDATED DRAWING STATUS TO "CERTIFIED PRINT" AND ADDED REV LBS UNITS	
			5500/2540	03	06/25/09	UPDATED DRAWING STATUS TO "AS BUILT" AND DIMENSIONS DWN. 22.7 IN. 22.5	



NCP PROJECT

GENERAL ARRANGEMENT, UNIT 42
42X84, 42X85, & 42X87

VP-2800-126-001-42V80-066

1/24 07/03/25 NCP-SE-001

CONTRACTOR
WorleyParsons
RESOURCES & ENERGY

INSTALLING CONTRACTOR
CARTER-BAY INT'L.
185
DATE 08/18/08
SHEET 16-2

INSTALLATION DATA
AU/DU 3200'S W/ FLOW DIVIDERS & D650 DRIVER PAIR
55353-300

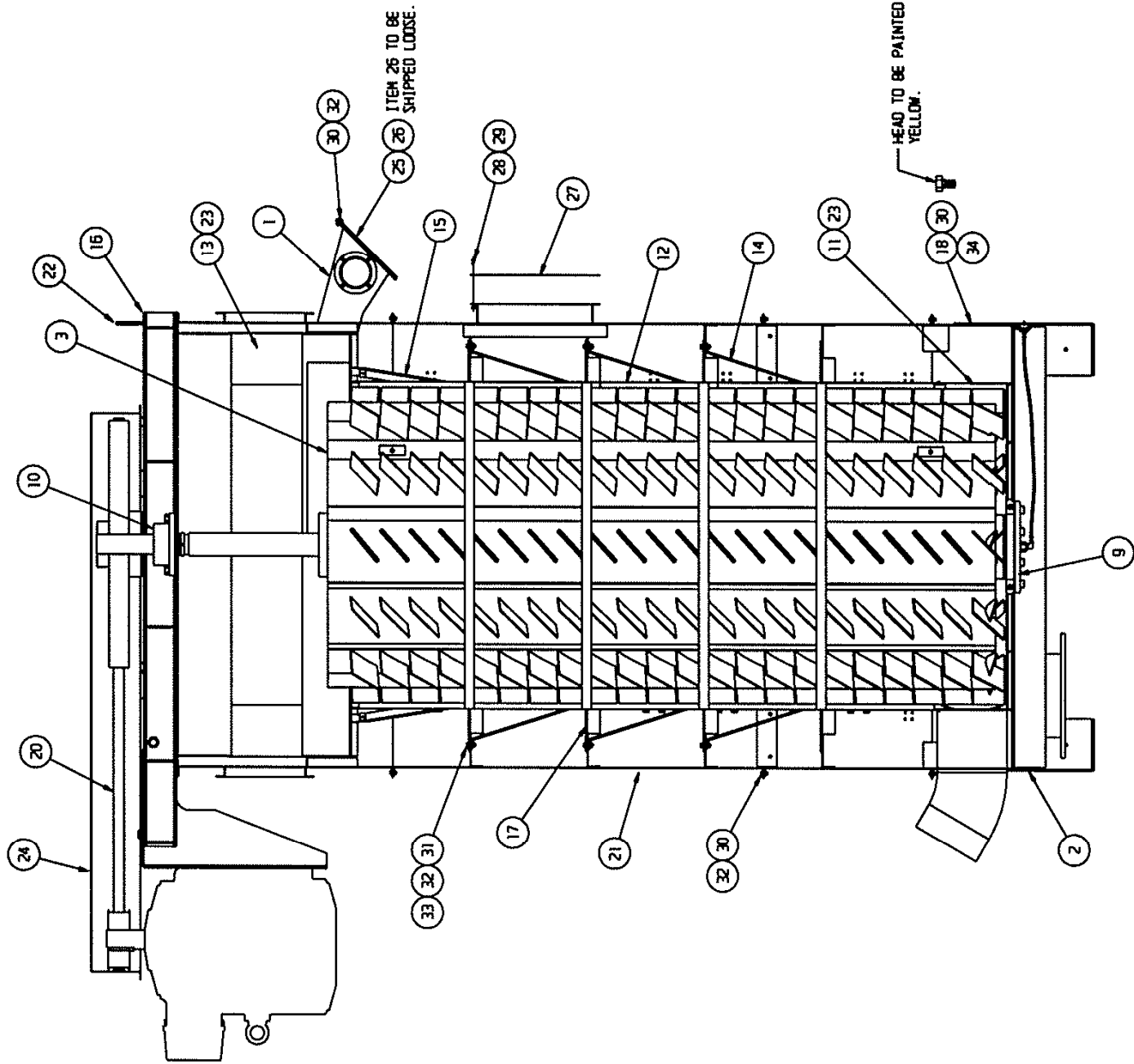
NOTE:

- ALL WATING FITTING AND MOUNTING POSITION DIMENSIONS ARE ± .25 (6.35) UNLESS OTHERWISE SPECIFIED.
- INSTALL AU/DU3200 LEGS TO BODY USING BOLTS PROVIDED AND DRAW TO FINGER TIGHT. POSITION UNIT LEGS TO MOUNTING POSITIONS ON FLOOR ANCHOR FLOOR MOUNT POSITIONS BY TIGHTENING FLOOR BOLTS. THEN TIGHTEN LEG BOLTS.
- ITEMS 3-5, 10, 12, 18, 20, & 25 SHIPPED LOOSE FOR FIELD INSTALLATION.
- 2 METER MINIMUM STRAIGHT PIPE AT N50402A/B, N50407A/B, AND N50410
- STUB SHAFT MAY BE REMOVED TO REDUCE CLEARANCE HEIGHT REQUIREMENT BY 30"
- NO LOADS OR MOMENTS ALLOWED ON ANY NOZZLES.

GROUND LUG DETAIL

NOZZLE/ITEM NO.	INACTIVE	DRY	TYPE	RATING/DRILLING PATTERN	MATING COMPONENT
N50407A/B	D650	WATER DISCHARGE	VICT	N/A	YES
N50404A/B	D650	PELLET DISCHARGE	FF	N/A	NO
N50403A/B	D650	AIR OUTLET TRANSMISSION	FF	150M	YES
N50406A/B	AU/DU 3200	AGGLOMERATE DISCHARGE	RFSD	150M	YES
N50402A/B	AU/DU 3200	WATER DISCHARGE	VICT	N/A	YES
N50410	AU/DU 3200	SLURRY INLET	VICT	N/A	YES

REVISIONS					REMARKS
LEVEL	NO.	DATE	BY	DATE	



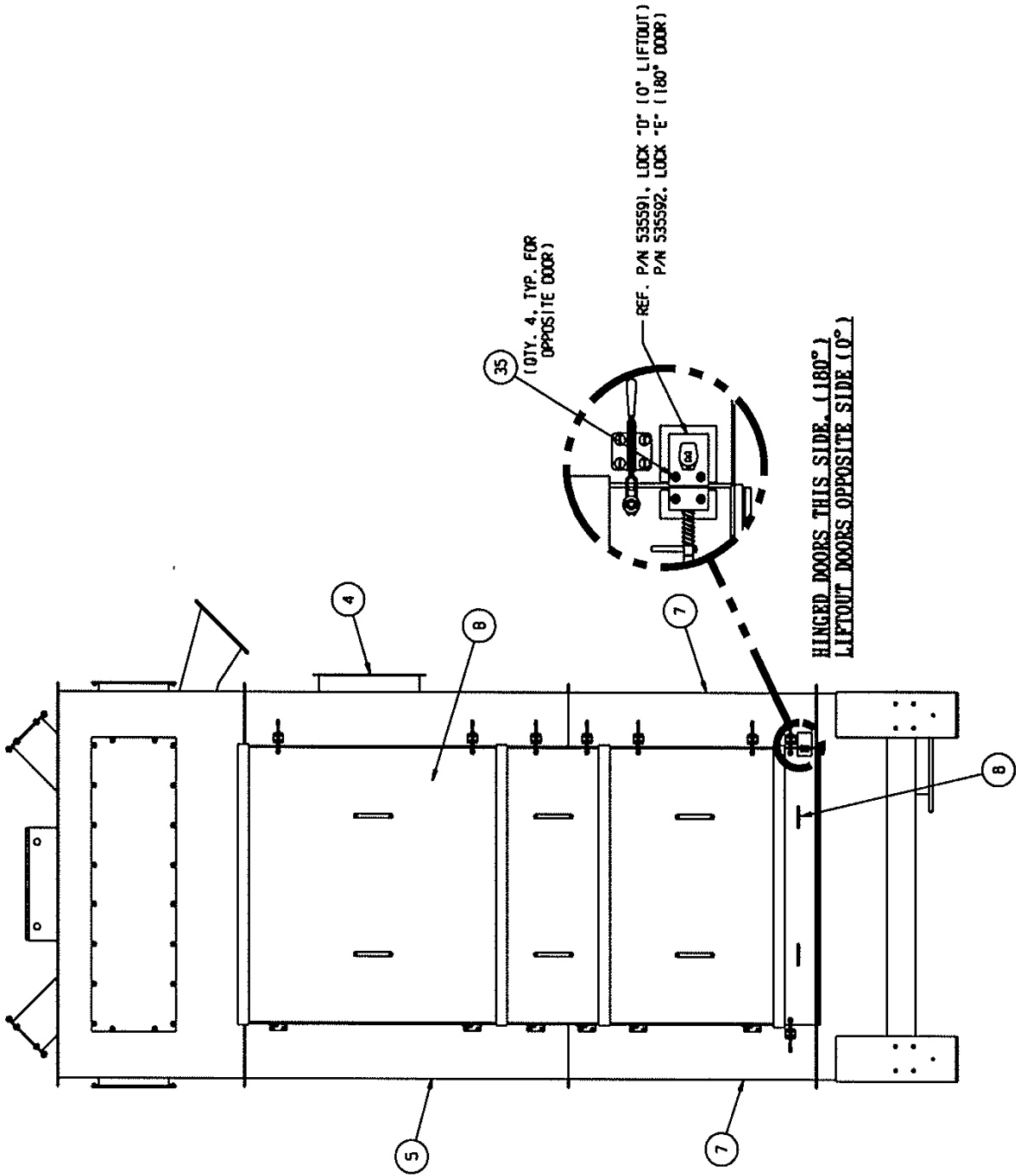
ASSEMBLY NOTES:

1. DOOR FRAME TO BE CHECKED FOR STRAIGHTNESS WITHIN 1/8" BEFORE FINAL RING ALIGNMENT.
2. DRIVE BELT SHOULD BE TENSIONED PER SPECIFICATIONS ON DRIVE KIT.
3. UNIT SHOULD BE SHIPPED WITH ACTUAL DRIVE MOUNTED, TESTED AND READY TO RUN.
4. MOTOR AMPERAGES AND OTHER TEST INFORMATION TO BE GIVEN TO MANUFACTURING ENGINEER. EVERY DRYER IS REQUIRED TO HAVE AMPERAGE READING TAKEN BOTH AT STARTUP AND RUNNING.
5. ALL OPTIONS ARE TO BE TESTED AS SPECIFIED ON THE OPTION PRINT.
6. SILICONE OR OTHER SEALANTS ARE NOT TO BE USED UNLESS APPROVED BY ENGINEERING. SILICONE IS TO BE USED TO SEAL JOINTS BETWEEN BODY MODULE FLANGES.
7. ALL LOOSE PARTS TO BE TAGGED WITH PART NUMBERS.
8. LOCTITE IS NOT TO BE USED UNLESS APPROVED BY ENGINEERING.

SEE DRAWING SHEETS 55353-300 & 301
FOR INSTALLATION DATA INFORMATION

ITEM	QTY	PART NO.	ENG. NO.	DESCRIPTION
CARTER DAY				
FINAL ASSY., D650 DRYER, STYLE DH2-X, STI LOCK/LATCH				
DRAWN BY: B. ADP DATE: 05/02/01				
CHECKED BY: SCALE: 3/4" = 1"				
SHEET NO. 55353-306				

FOR FILTER, DOOR & SIDE PLATE ARRANGEMENTS
SEE INSTALLATION DATA DRAWING FOR TYPE & ORIENTATION.



P/N 537100 D650 DRYER, 304L SS, STYLE DHU2-X

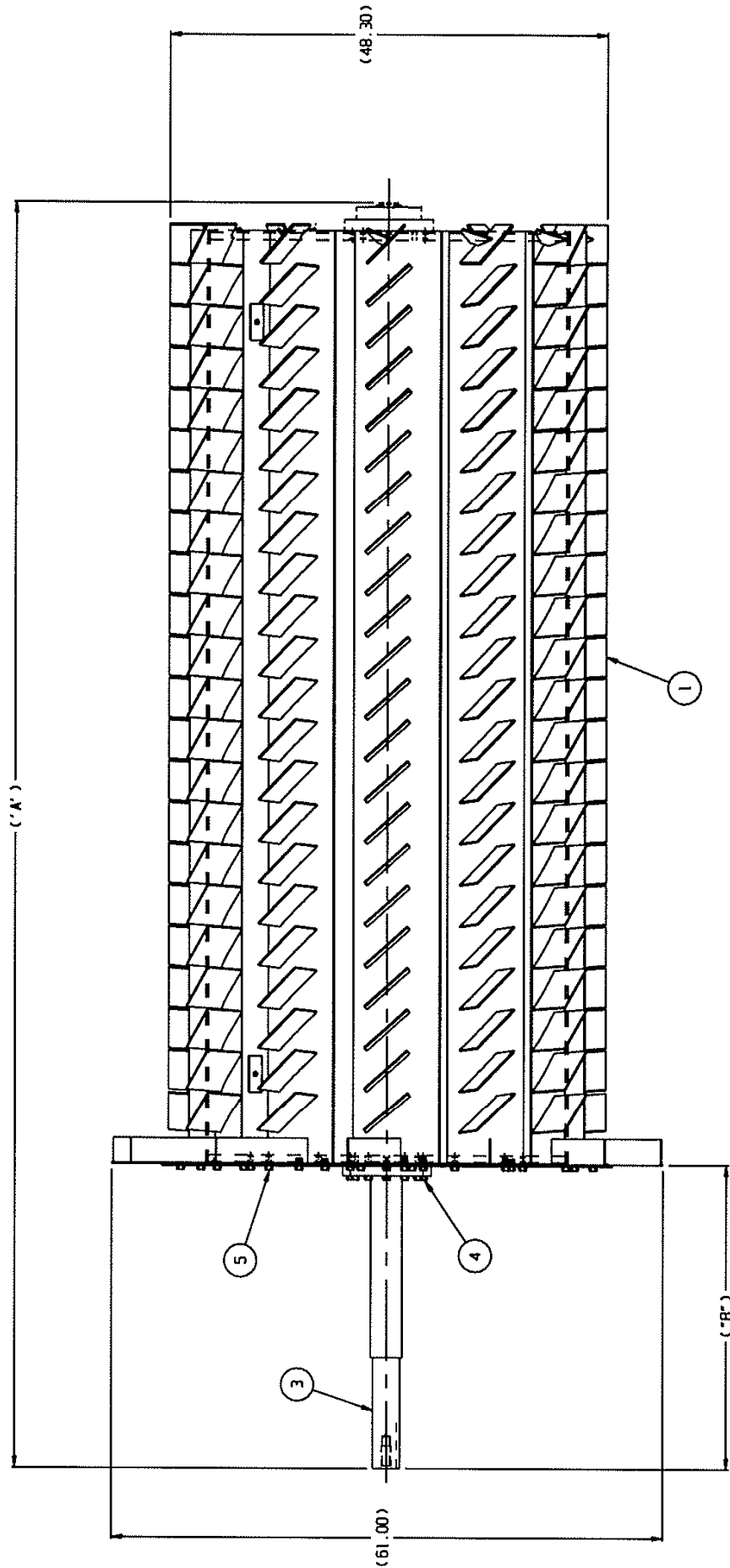
ITEM	QTY.	REQD.	PART NO.	ENG. NO.	DESCRIPTION
35	8		535598	NO	MACH. SER., BH. SS. IMPR. PRE., #10-24 X 1.25"
34	4		431754	CO-87232	LOCK, SPLASH GUARD
33	80		88127	NO	WASHER, FLAT 3/8 SS
32	172		88055	NO	NUT HEX SS 3/8-16 NYL.
31	20		88036	NO	CAP SCR HH SS 3/8-16 X 1.25"
30	146		88033	NO	CAP SCR HH SS 3/16-16 X .75"
29	14		88058	NO	NUT HEX SS 5/16-18
28	14		88025	NO	CAP SCR HH SS 5/16-18 X .500"
27	1		430368	CO-0319	COVER, AIR OUTLET
26	1		430367	CO-0320	GASKET, PRODUCT DISCHARGE
25	1		430365	CO-0321	COVER, PRODUCT DISCHARGE
24	1		SEE F40	CO-06517	KIT, DRIVE GUARD
23	14		412700	CO-A1305	BOLT, LATCH ASSEMBLY
22	1		430284	CO-06564	KIT, LIFTING
21	1		SEE F40	CO-06581	KIT, LABEL
20	1		SEE F40	CO-06309	KIT, DRIVE
19	1		SEE F40	CO-08483	KIT, FILTER
18	2		431752	CO-08086	GUARD, SPLASH
17	5		414786	CO-04864	RING, PERFORATED CASTING
16	1		425934	CO-06530	WELDMENT, TOP PLATE
15	4		429798	CO-87099	BAR, SUPPORT, TOP CASTING
14	16		423465	CO-86111	BAR, SUPPORT, CASTING
13	2		SEE F40	CO-08464	CASTING, DISCHARGE PAN
12	12		SEE F40	CO-08745	CASTING, PERFORATED, MAIN
11	2		SEE F40	CO-08463	SCREEN, BOTTOM
10	1		430287	CO-06566	TOP BEARING ASSEMBLY
9	1		431911	CO-08034	BOTTOM SEAL & BEARING ASSEMBLY
8	REF.		537102	53553-310	KIT, D650 COMBO DOORS, STI LOCK/LATCH MTG.
7	2		537101	53553-308	PLATE, SIDE, BTH., LONG, D650 W/ STI LOCK MTG.
6					
5	1		429593	CO-08422	PLATE, SIDE, TOP
4	1		429591	CO-08421	PLATE, SIDE, TOP W/AIR OUTLET
3	1		SEE F40	CO-08112	ROTOR ASSEMBLY
2	1		SEE F40	CO-010357	WELDMENT, BOTTOM PAN
1	1		SEE F40	CO-08323	ASSEMBLY, DISCHARGE PAN

"D650 DRYER"

CARTER DAY	
FINAL ASSY., D650 DRYER, STYLE DHU2-X, STI LOCK/LATCH	
DATE: 07/20/09	BY: J. P. 2
537100	53553-307

REV.	DESCRIPTION	DATE
1	ISSUED FOR PRODUCTION	07/20/09

REVISIONS					REMARKS	
LEVEL	MOD	CD #	BY	DATE		
A		04-055	MTM	05/01/04	UPDATED TORQUE SPECS TO LB-FT; WAS IN LB-IN	



MOD D550 ROTOR ASSEMBLY SHOWN

NOTE: ENSURE THAT THREADS ARE CLEAN AND LUBRICANT IS USED BEFORE ASSEMBLY. DO NOT USE LOCTITE.

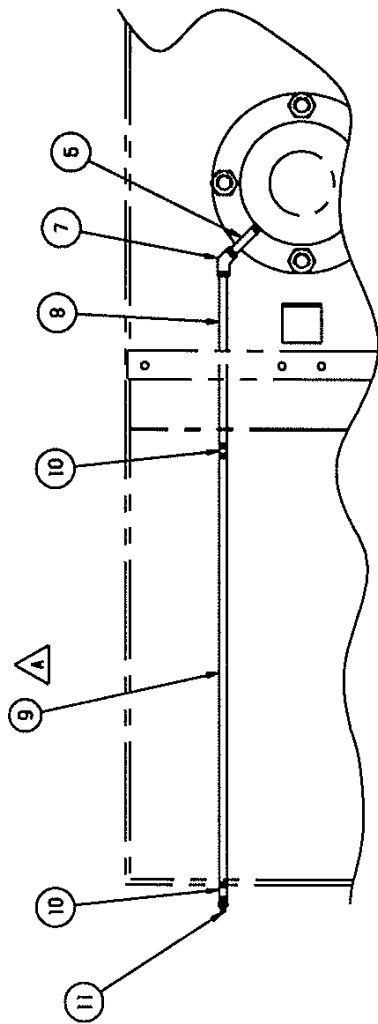
REF: 429552

PART NO.	MATERIAL	(1/4") DIA.	(1/2") DIA.	(3/4") DIA.	DESCRIPTION	WEIGHT (LBS.)
432133	316L SS - HARDFACED				MOD D-1050	3940.4
432132	304L SS - HARDFACED					3750.4
432131	316L SS	231.14	35.41			
432130	304L SS				MOD D-850	3411.1
432129	316L SS - HARDFACED					3405.8
432128	304L SS - HARDFACED	195.14	35.41			
432127	316L SS				MOD D-650	2860.0
432126	304L SS					2854.7
432125	316L SS - HARDFACED	159.14	35.41			
432124	304L SS - HARDFACED				MOD D-550	2585.1
432123	316L SS					2579.8
432122	304L SS	141.14	35.41			
432121	316L SS - HARDFACED					
432120	304L SS - HARDFACED					
432119	316L SS					
432118	304L SS					



ITEM	QTY.	UNIT	PART NO.	ENG. NO.	DESCRIPTION
MATERIAL					CARTER DAY
SEE PARTS LIST (SHEET 2)					ROTOR ASSEMBLY
REVISION: SEE TAB					MOD D50 SERIES CENTRIFUGAL DRYERS
FIRST USED ON					DATE 05/21/01
CD-09111					SCALE 1/8"
DRAWN BY					DATE 05/21/01
CHECKED BY					DATE 05/21/01
APPROVED BY					DATE 05/21/01
BY: J. J. WHITE					CD-09112

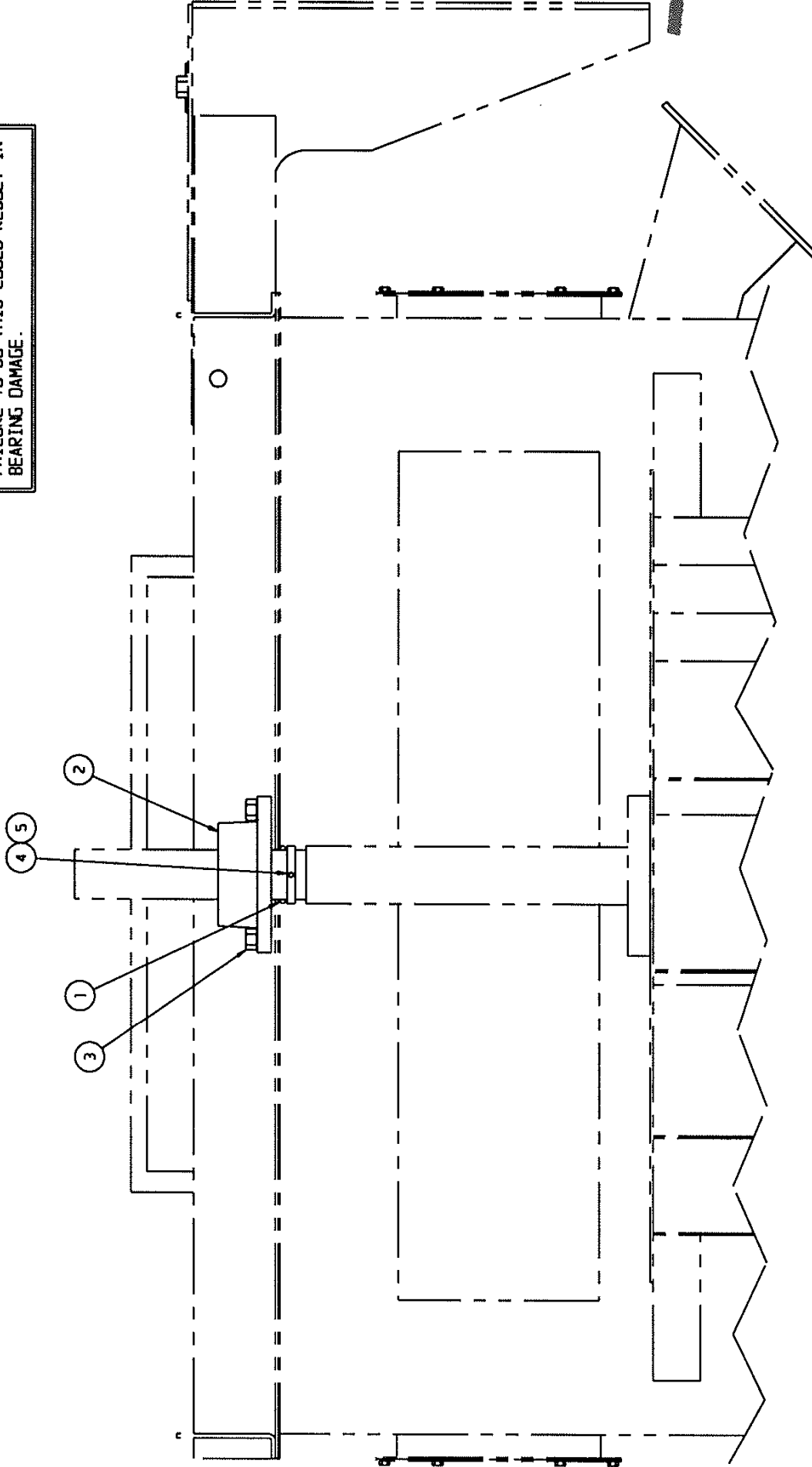
REVISIONS				
LEVEL	REVISION	BY	DATE	REMARKS
A	01-104	MTB	08/20/02	ADDED 20" PIPE NIPPLE AND COUPLING TO EXTEND GREASE LINE
B	09-067	RES	04/07/08	CHANGED SET COLLAR TO 304L. 413340 WAS 413338



- NOTES:
- INSURE PROPER GAP BETWEEN ITEM 4 (SET COLLAR) AND TOP PLATE FOR PROPER SEALING OF V-RING (ITEM 1). GAP SHOULD BE .53 +/- .05 DRILL SPOT AFTER POSITIONING.
 - ITEM 8 AND ONE (1) OF ITEM 10 ARE NOT USED ON 032 SERIES DRYERS

△ A

IMPORTANT!
THE TOP BEARING MUST BE SET IN THE CENTER OF IT'S EXPANSION RANGE. FAILURE TO DO THIS COULD RESULT IN BEARING DAMAGE.



P/N 430288 316L SS

ITEM	QTY	REQD.	PART NO.	DESC.	NO.
11	1		14007	FIG., GREASE #1610 STR. 125" NPT	
10	2		30083	COUPLING, FULL 1/8 304 SS	
9	1		43058	NIPPLE PIPE 304 SS 1/8" SCH40 X 20"	
8	1		60026	NIPPLE PIPE 304 SS 1/8" SCH40 X 10"	
7	1		63647	ELBOW 45° 1/8" 304 SS	
6	1		88631	NIPPLE PIPE 304 SS 1/8" SCH40 X 2"	
5	2		420768	SET SCR STD 316SS 1/4-20 X .375"	
4	1		420783	COLLAR, SET	
3	4		420877	NUT HEX FULL NTL 316SS 3/4-10	
2	1		413383	BRG., FLG., 3.00 BORE RFE-82240E	
1	1		411341	V-RING, 2.64 I.D. V-75S	
ITEM	QTY	REQD.	PART NO.	DESC.	NO.

△ A

P/N 430287 304L SS

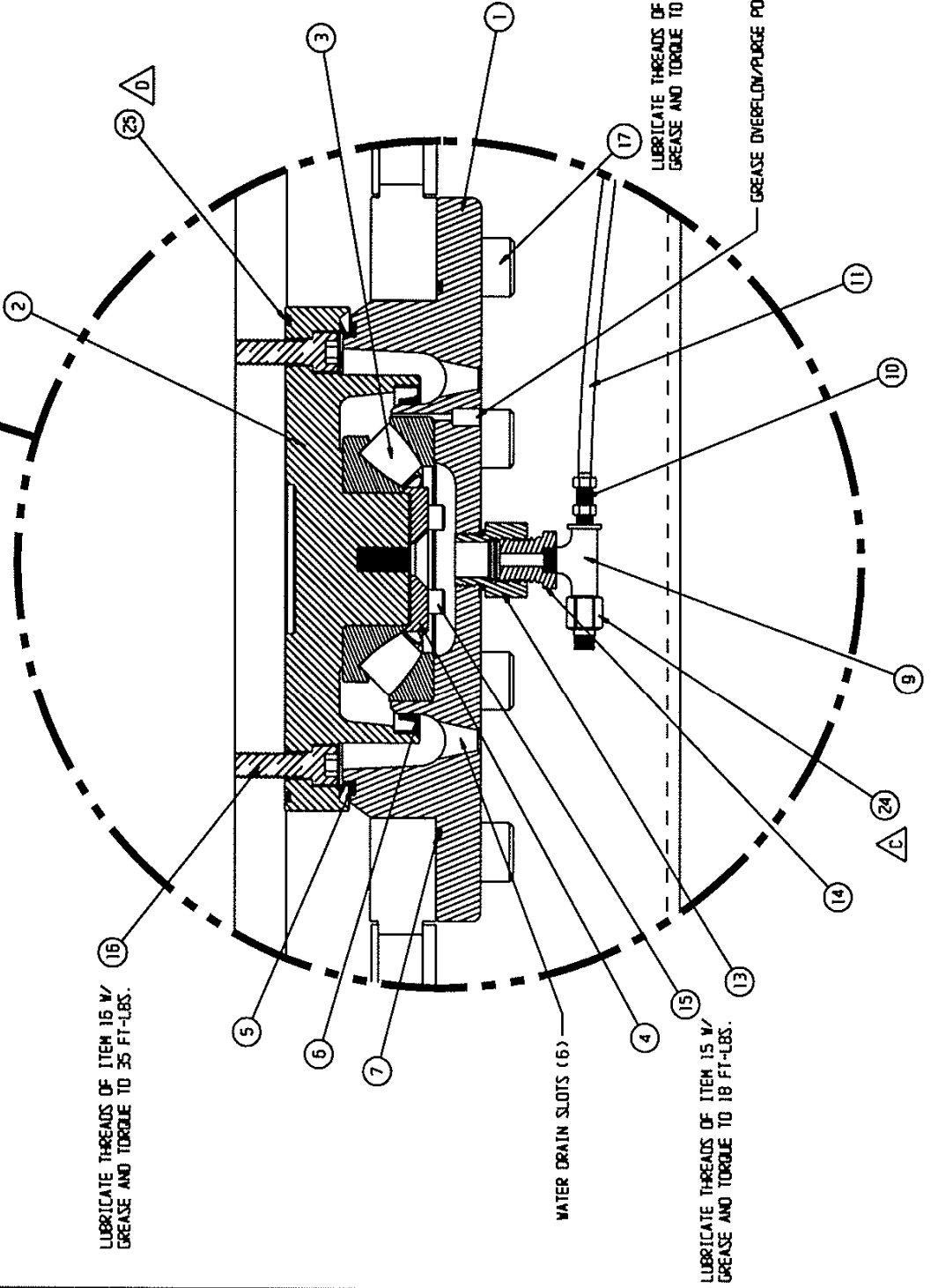
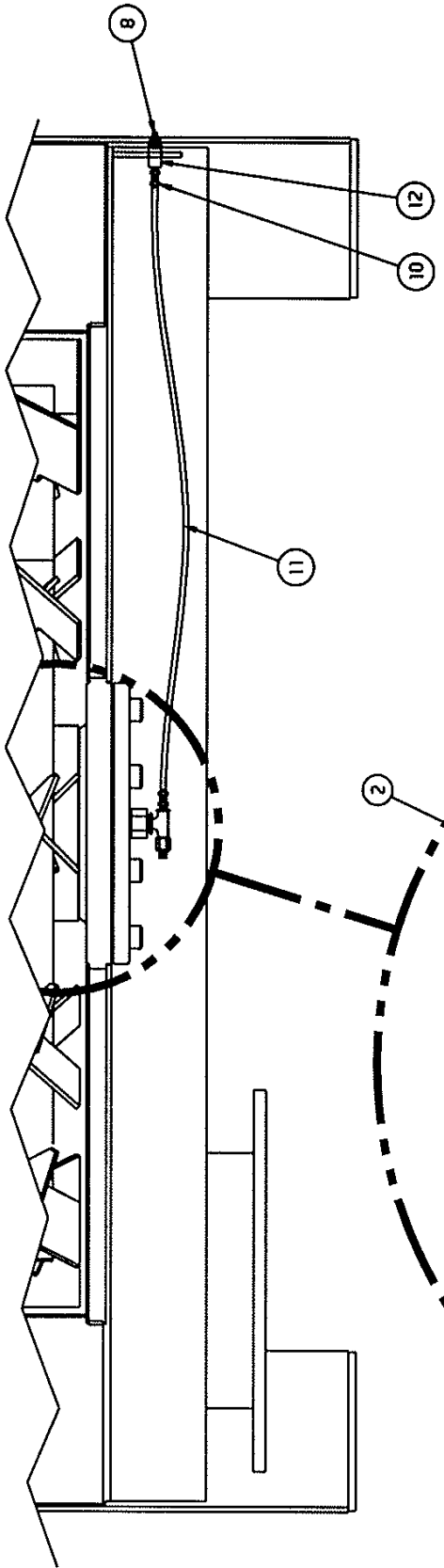
ITEM	QTY	REQD.	PART NO.	DESCRIPTION
11	1		14007	FIG., GREASE #1610 STR. 125" NPT
10	2		30083	COUPLING, FULL 1/8 304 SS
9	1		43058	NIPPLE PIPE 304 SS 1/8" SCH40 X 20"
8	1		60026	NIPPLE PIPE 304 SS 1/8" SCH40 X 10"
7	1		63647	ELBOW 45° 1/8" 304 SS
6	1		88631	NIPPLE PIPE 304 SS 1/8" SCH40 X 2"
5	2		48552	SET SCR STD SS 1/4-20 X .375"
4	1		413340	COLLAR, SET
3	4		413408	NUT HEX FULL NTL SS 3/4-10
2	1		413383	BRG., FLG., 3.00 BORE RFE-82240E
1	1		411341	V-RING, 2.64 I.D. V-75S
ITEM	QTY	REQD.	PART NO.	DESCRIPTION

△ A

△ B

SEE PARTS LIST				
CARTER DAY				
TOP BEARING ASSEMBLY				
MOD 032 SERIES CENTRIFUGAL DRYERS				
DESIGNED BY	DATE	22/2/00	DATE	22/2/00
DRAWN BY	DATE	1/4	DATE	1/4
CHECKED BY	DATE	1/4	DATE	1/4
APPROVED BY	DATE	1/4	DATE	1/4
PART NO. 430288 316L SS				
430287 304L SS				
CD-08566				

REVISIONS				
LEVEL	NO.	BY	DATE	REMARKS
A	02-030	MTM	03/10/02	ENG. ITEM B, WAS PN/14007
B	02-035	MTM	08/14/02	ADDED PATENT NUMBER, WAS "PATENT PENDING"
C	06-022	MTM	01/20/06	ENG. ITEM B & 9, WAS 432742 & 417637, ADD ITEM 24
D	06-222	MTM	11/15/06	ADDED ITEM 25, ITEM 5 WAS 431908



LUBRICATE THREADS OF ITEM 16 W/
GREASE AND TORQUE TO 35 FT-LBS.

WATER DRAIN SLOTS (16)

LUBRICATE THREADS OF ITEM 17 W/
GREASE AND TORQUE TO 120 FT-LBS.

LUBRICATE THREADS OF ITEM 15 W/
GREASE AND TORQUE TO 18 FT-LBS.

GREASE OVERFLOW/PURGE PORT

FINISHED ASSEMBLY

SEE SHEET 2 FOR SHIPPING & INSTALLATION VIEWS
SEE SHEET 3 FOR NOTES & INSTRUCTIONS

REF PN/430286

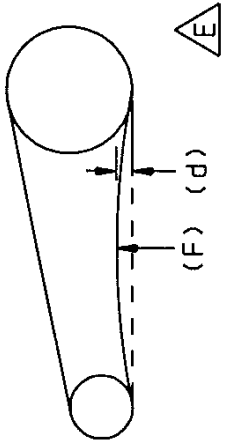
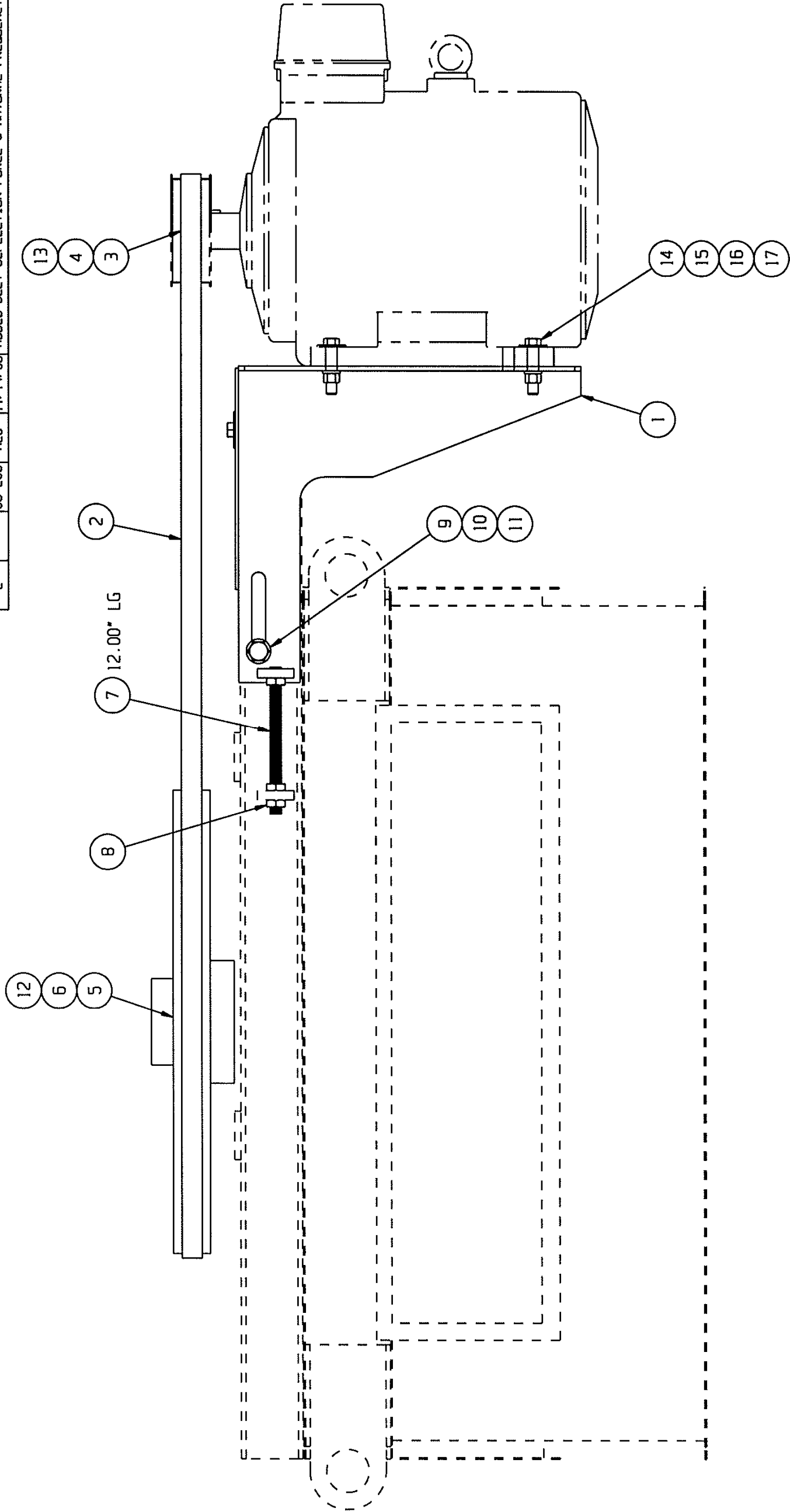
431911 316L SS

DESIGN COVERED UNDER UNITED STATES PATENT 6,430,842

D		25	1	441632	N0	O-RING, VITON, 8.984 ID X .130, #2-270
C		24	1	432742	N0	CHECK VALVE, GREASE, 1951, TRAUM 509-355-010
		23	4	431905	N0	CAP SCREW, SOCKET HEAD, 3/4-10 X 2.00
		22	1	47526	N0	WASHER, FLAT, 1/2", INCLDN
		21	1	1010002	N0	CAP SCREW, HEX HEAD, 1/2-13 X 4.5
		20	1	431905	CO-43277	JACK SCREW, ROTOR
		19	1	432010	CO-43275	BUSHING, SHIPPING BOLT
		18	1	432011	CO-87260	BOLT, SHIPPING, 1/2" YELLOW W/ TAG
		17	8	432000	N0	CAP SCREW, SOCKET HEAD, 3/4-10 X 1.50, SS
		16	8	423213	N0	CAP SCREW, SOCKET HEAD, 1/2-13 X 1.50, H08L
		15	3	91127	N0	CAP SCREW, SOCKET HEAD, 5/16-18 X .875, G8
		14	1	431909	N0	BUSHING, REDUCER, 1/2-14 NPT TO 1/8-27 NPT, SS
		13	1	431910	N0	ADAPTER, 1 1/16-12 SAE TO 1/2-14 NPT, SS
		12	1	30063	N0	COUPLING 304 SS 1/8"
		11	30	91078	N0	POLY TUBE .25" O.D.
C		10	2	76704	N0	CONNECTOR .25" O.D. X 1/8" NPT
A		9	1	440669	N0	TEE, RUN, 1/8 NPT, 2WP-2PP-2WP
A		8	1	14007	N0	ZERK, GREASE, 1/8" NPT
		7	1	413654	N0	O-RING, VITON, 10.484 ID X .130, #2-275
D		6	1	431909	N0	SEAL, DOUBLE LIP, CRMA1-V #56669
		5	1	430500	CO-43457	SEAL, V-RING, PTFE
		4	1	431906	CO-87241	CAP, BEARING, RETAINER
		3	1	431907	N0	BEARING, THRUST, SKF #28413E
		2	1	431904	CO-08033	SHAFT, STUB, BOTTOM
		1	1	431903	CO-08032	HOUSING, SEAL & BEARING
		ITEM	QTY.	RECD.	PART NO.	DESC.
		INTERNAL				
		SEE PARTS LIST				
		BOTTOM SEAL & BEARING ASSEMBLY H08 D50/2 SERIES CENTRIFUGAL PUMPS				
		CARTER DAY				
		DATE 10/25/01				
		DRAWN BY RTH				
		CHECKED BY				
		APPROVED BY				
		SHEET 1 OF 1				
		CD-09034				
		CD-08424				
		FIRST ORDER				
		REWORK: 50 LBS.				
		SPECIFIED				
		1.00"				
		2.00"				
		3.12"				
		1/2				

REVISIONS

LEVEL	RECD	BY	DATE	REMARKS
A	00-068	WJA	02/19/00	ADD ITEMS 7 THRU 17. ADD SHT TO PICT. SHOW KIT.
B	00-100	WJA	03/22/00	CHG ITEM 6 - WAS: P/N 428557 PULLY....14M-65-M.
C	00-166	WJA	05/12/00	SHT 2 - ADD P/N 430798 FOR 75 HP OPTION.
D	00-166	MTH	11/16/00	PN CHG'S ON 80M'S TO UTILIZE CORRECT BUSHING & PULLY
E	08-205	MES	11/14/08	ADDED BELT DEFLECTION FORCE & NATURAL FREQUENCY



FORCE (F) (AT CENTER OF SPAN) SEE SHEETS 2 & 3
DEFLECTION (d) = 29/32"

TOLERANCES UNLESS SPECIFIED			
DECIMAL: .XXX	.010"		
.XX	.03"		
FRACTIONS: 1/16"			
ANGULAR: 1/2			

MATERIAL

SEE SHEET 2 & 3

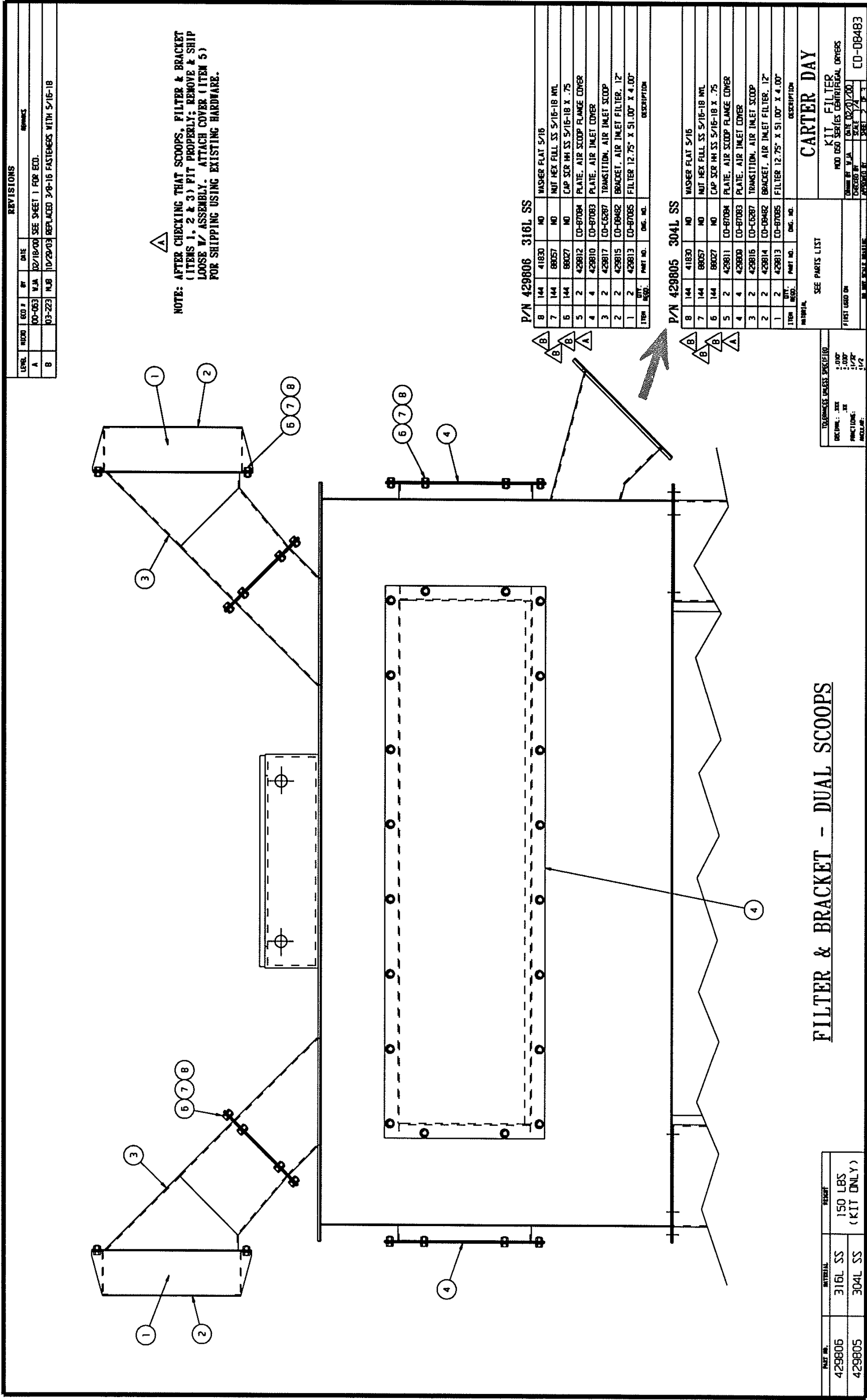
CARTER DAY

DRIVE KIT
MOD D50 SERIES CENTRIFUGAL DRYERS

WEIGHT: SEE TAB	DATE: 2/19/00	CD-[6309
FIRST USED ON	WJA	
CHECKED BY	SCALE: 5/32	
APPROVED BY	SHEET 1 OF 3	

PART NO.

SHT 2 & 3



REVISIONS			
REV.	NO.	BY	DATE
A	00-063	MJA	10/18/00
B	03-223	MJB	10/29/03

REVISIONS
SEE SHEET 1 FOR ECU.
REPLACED 3-8-16 FASTENERS WITH 5/16-18

NOTE: AFTER CHECKING THAT SCOOPS, FILTER & BRACKET (ITEMS 1, 2 & 3) FIT PROPERLY; REMOVE & SHIP LOOSE W/ ASSEMBLY. ATTACH COVER (ITEM 5) FOR SHIPPING USING EXISTING HARDWARE.

P/N 429806 316L SS

ITEM	QTY.	REF.	PART NO.	DESC.
8	144	41830	NO	WASHER FLAT 5/16
7	144	88057	NO	NUT HEX FULL SS 5/16-18 NTL
6	144	88027	NO	CAP SCR HH SS 5/16-18 X .75
5	2	429812	CD-87084	PLATE, AIR SCOOP FLANGE COVER
4	4	429810	CD-87083	PLATE, AIR INLET COVER
3	2	429817	CD-6287	TRANSITION, AIR INLET SCOOP
2	2	429815	CD-08482	BRACKET, AIR INLET FILTER, 12"
1	2	429813	CD-87085	FILTER 12.75" X 51.00" X 4.00"

P/N 429805 304L SS

ITEM	QTY.	REF.	PART NO.	DESC.
8	144	41830	NO	WASHER FLAT 5/16
7	144	88057	NO	NUT HEX FULL SS 5/16-18 NTL
6	144	88027	NO	CAP SCR HH SS 5/16-18 X .75
5	2	429811	CD-87084	PLATE, AIR SCOOP FLANGE COVER
4	4	429809	CD-87083	PLATE, AIR INLET COVER
3	2	429816	CD-6287	TRANSITION, AIR INLET SCOOP
2	2	429814	CD-08482	BRACKET, AIR INLET FILTER, 12"
1	2	429813	CD-87085	FILTER 12.75" X 51.00" X 4.00"

SEE PARTS LIST			
KIT FILTER			
MOD 800 SERIES CENTRIFUGAL PUMPS			
DATE BY	DATE	SCALE	SHEET
02/01/00	02/01/00	1/4"	1 OF 1
DESIGNED BY	APPROVED BY	CD-08483	

FILTER & BRACKET - DUAL SCOOPS

PART NO.	MATERIAL	WEIGHT
429805	316L SS	150 LBS
429806	304L SS	(KIT ONLY)

